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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/803,165	03/09/2001	Harald Sobek	5328	4735
22829 75	590 03/09/2004		EXAM	INER
110011211102	MOLECULAR SYSTEMS INC ZARA, JANE J		JANE J	
	PATENT LAW DEPARTMENT 1145 ATLANTIC AVENUE			PAPER NUMBER
ALAMEDA, CA 94501			1635	
			DATE MAILED: 03/09/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		09/803,165	SOBEK ET AL.	
		Examiner	Art Unit	
		Jane Zara	1635	
 Period for	The MAILING DATE of this communicati Reply	on appears on the cover sheet w	ith the correspondence address	
THE M - Extensi after SI - If the pi - If NO p - Failure Any rep	RTENED STATUTORY PERIOD FOR AILING DATE OF THIS COMMUNICAT ions of time may be available under the provisions of 37 IX (6) MONTHS from the mailing date of this communicateriod for reply specified above is less than thirty (30) day eriod for reply is specified above, the maximum statutory to reply within the set or extended period for reply will, but to reply within the Set or extended period for reply will, but preceived by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a tion. s, a reply within the statutory minimum of thin, y period will apply and will expire SIX (6) MOI by statute, cause the application to become Al	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status				
1)⊠ F	Responsive to communication(s) filed or	n <u>05 December 2003</u> .		
2a)∐ 1	This action is FINAL . 2b)⊠ This action is non-final.			
-	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits it			
C	closed in accordance with the practice u	inder <i>Ex parte Quayl</i> e, 1935 C.I	D. 11, 453 O.G. 213.	
Dispositio	n of Claims			
4) 🖾 (Claim(s) 15 and 17-32 is/are pending in	the application.		
4	a) Of the above claim(s) is/are w	ithdrawn from consideration.		
5) 🗌 (Claim(s) is/are allowed.			
	Claim(s) <u>15,17,18 and 20-32</u> is/are rejec	cted.		
	Claim(s) <u>19</u> is/are objected to.			
8)(Claim(s) are subject to restriction	and/or election requirement.		
Applicatio	n Papers			
9)∐ T	he specification is objected to by the Ex	caminer.		
	he drawing(s) filed on is/are: a)[
	Applicant may not request that any objection			
	Replacement drawing sheet(s) including the			
11)[1	he oath or declaration is objected to by	the Examiner. Note the attache	a Office Action of form P1O-152.	
Priority ur	nder 35 U.S.C. § 119			
	.cknowledgment is made of a claim for f] All b)□ Some * c)□ None of:	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1	 Certified copies of the priority doc 	uments have been received.		
	2. Certified copies of the priority doc			
3	3. Copies of the certified copies of the	· ·	n received in this National Stage	
مد مد	application from the International		h manaissad	
* Se	ee the attached detailed Office action fo	r a list of the certified copies no	t received.	
Attachment(s)			
as I. Tarries	of References Cited (PTO-892)	4) Interview	Summary (PTO-413)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date _

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

5) Notice of Informal Patent Application (PTO-152)

6) Other: _

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DETAILED ACTION

This Office action is in response to the communications filed 10-28-03 and 12-5-03.

Claims 15, 17-32 are pending in the instant application.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12-5-03 has been entered.

Response to Arguments and Amendments

Applicant's arguments with respect to claims 15 and 17-29 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 15 and 17-32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 15, lines 4-5, it is unclear what is meant by, or what is encompassed by a mutant polymerase *suitable for* PCR, or *a wild-type form of a mutant polymerase*.

Appropriate clarification is requested.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 15, 17-32 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claims are drawn to compositions and methods comprising a mutant polymerase having at least 80% homology with SEQ ID NO: 34, comprising a Y-GG/A amino acid motif and suitable for PCR. The specification and claims do not indicate what distinguishing attributes are concisely shard by the members of the claimed genus comprising a mutant polymerase having at least 80% homology with SEQ ID NO: 34. The specification does not place any limit on the number of nucleic acid or amino acid substitutions, deletions, insertions and/or additions that may be encompassed by the

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broad genus comprising a mutant polymerase having at least 80% homology with SEQ ID NO: 34. Thus, the scope of the claims includes numerous structural variants and the genus is highly variant because a significant number of structural differences between genus members is permitted. Concise structural features that could distinguish compounds in the genus from others in the superfamily are missing from the disclosure. No common structural attributes concisely identify the members of the genus. The general knowledge and level of skill in the art do not supplement the omitted description because specific, not general guidance is what is needed. Since the disclosure fails to describe the common attributes or characteristics concisely identifying members of the proposed genus, and because the genus is highly variant, the description provided for defining members of this broad family of molecules - which comprise a Y-GG/A amino acid motif and are suitable for PCR, and which are 80% homologous to SEQ ID NO: 34 - is insufficient. One of skill in the art would reasonably conclude that the disclosure fails to provide a representative number of species to describe the genus claimed. Thus, Applicant was not in possession of the broad genus claimed.

Allowable Subject Matter

SEQ ID NO: 34 comprising a single amino acid substitution of tyrosine of the Y-GG/A amino acid motif appears free of the prior art of record.

Claim 19 is objected to for being dependent upon a rejected claim.

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Conclusion

Certain papers related to this application may be submitted to Art Unit 1635 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone number for the Group is 703-872-9306. NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Jane Zara** whose telephone number is **(571) 272-0765**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader, can be reached on (571) 272-0760. Any inquiry regarding this application should be directed to the patent analyst, Katrina Turner, whose telephone number is (571) 272-0564. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

JZ 2-19**-**04

IAM R. SHUKLA, PH.D. PRIMARY EXAMINER